

Claims:

1. An isolated polynucleotide molecule encoding an insecticidal toxin,
said polynucleotide molecule comprising a nucleotide sequence which
5 substantially corresponds to one of the following:
 - (i) the nucleotide sequence shown as SEQ ID NO: 1;
 - (ii) the nucleotide sequence shown as SEQ ID NO: 2; and
 - (iii) the nucleotide sequence of a portion of (i) or (ii) which encodes
an insecticidally-active toxin fragment.
- 10 2. An isolated polynucleotide molecule according to claim 1, wherein
said polynucleotide molecule comprises a nucleotide sequence which
substantially corresponds to that shown as SEQ ID NO: 1.
- 15 3. An isolated polynucleotide molecule according to claim 1, wherein
said polynucleotide molecule comprises a nucleotide sequence which
substantially corresponds to that shown as SEQ ID NO: 2.
- 20 4. An isolated polynucleotide molecule encoding an insecticidal toxin,
said polynucleotide molecule comprising a nucleotide sequence having at
least 85% sequence identity to the nucleotide sequence shown as SEQ ID
NO: 2.
- 25 5. An isolated polynucleotide molecule according to claim 4, wherein
said polynucleotide molecule comprises a nucleotide sequence having at
least 95% sequence identity to the nucleotide sequence shown as SEQ ID
NO: 2.
- 30 6. An insecticidal toxin, in a substantially pure form, which toxin
comprises an amino acid sequence having at least 70% sequence identity to
one of the following:
 - (i) the amino acid sequence shown as SEQ ID NO: 3;
 - (ii) the amino acid sequence shown as SEQ ID NO: 4;
 - (iii) the amino acid sequence of an insecticidally-active toxin
35 fragment of (i) or (ii).

7. An insecticidal toxin according to claim 6, wherein the toxin comprises an amino acid sequence having at least 85% sequence identity to that shown as SEQ ID NO: 3.
- 5 8. An insecticidal toxin according to claim 6, wherein the toxin comprises an amino acid sequence having at least 95% sequence identity to that shown as SEQ ID NO: 3.
- 10 9. An insecticidal toxin according to claim 6, wherein the toxin comprises an amino acid sequence substantially corresponding to that shown as SEQ ID NO: 3.
- 15 10. An insecticidal toxin according to claim 6, wherein the toxin comprises an amino acid sequence having at least 85% sequence identity to that shown as SEQ ID NO: 4.
- 20 11. An insecticidal toxin according to claim 6, wherein the toxin comprises an amino acid sequence having at least 95% sequence identity to that shown as SEQ ID NO: 4.
- 25 12. An insecticidal toxin according to claim 6, wherein the toxin comprises an amino acid sequence substantially corresponding to that shown as SEQ ID NO: 4.
- 30 13. A recombinant microorganism, the microorganism being characterised in that it is transformed with and expresses a polynucleotide molecule according to any one of the claims 1 to 5.
14. A recombinant microorganism according to claim 12, wherein the microorganism is selected from bacteria, protozoa and yeast.
- 35 15. A method of producing an insecticidal toxin, said method comprising:
(i) culturing a microorganism according to claim 13 or 14 under conditions suitable for the expression of the toxin-encoding polynucleotide molecule; and
(ii) optionally recovering the expressed insecticidal toxin.

16. A method for killing pest insects, said method comprising applying to an area infested with said insects an effective amount of a recombinant microorganism according to claim 13 or 14 optionally in admixture with an acceptable agricultural carrier.
17. A recombinant insect-specific virus, the recombinant insect-specific virus being characterised in that it includes within a non-essential region of its genome a polynucleotide molecule according to any one of claim 1 to 5 operably linked to a suitable inducible or constitutive promoter sequence.
18. A method for killing pest insects, said method comprising applying to an area infested with said insects an effective amount of a recombinant virus according to claim 17 optionally in admixture with an acceptable agricultural carrier.
19. A plant transformed with, and capable of expressing, the polynucleotide molecule according to any one of claims 1 to 5.